

CAT. No. GRT-03-2209 Rev.

ISOGROUT 55

High Strength Non Shrink Grout

ISOGROUT 55 is a ready to use powder blend of special cement, graded fillers, and additives and only requires the addition of water to produce, a high strength, non-shrink, and free flowing grout. The unique shrinkage compensating systems of **ISOGROUT 55** does not depend on the liberation of gas and incorporates the latest technological advance in shrinkage prevention. The controlled expansion of **ISOGROUT 55** both in the plastic and hardened stage ensures intimate contact with the surrounding substrates.

APPLICATION

ISOGROUT 55 is used for grouting heavy support beneath bed plates, rails, partitions, anchor bolts, stanchion bases, structural building members such as columns, post tensioned girders, panels, beams, precast wall panels, and other applications other than those subject to high impact and intense dynamic loading. **ISOGROUT 55** is also suitable as levelling and reprofiling / encapsulating grout for pile caps.

SPECIFICATIONS

ISOGROUT 55 conforms with the requirements of ASTM C1107-02, Grade C.

ADVANTAGES

- Does not contain metallic iron.
- Does not contain chlorides.
- High early and ultimate strength.
- Flowable, and fluid consistency.
- Ready to use just add water at the site.

TYPICAL PROPERTIES

- Compressive Strength (ASTM C109)

1 day	+40 N/sq.mm
7 days	+50 N/sq.mm
28 days	+65 N/sq.mm
 - Height Change (early age) ASTM C827 +0.002
 - Height Change (Hardened) ASTM C1090

1 day	0.002
28 days	0.004
 - Consistency, ASTM C827 Flowable
- (Note: Tests were done using a water/powder ratio of 0.18)
- Recommended thickness

Minimum	25mm
Maximum	100 mm

(Note: Depending on site condition and requirement, up to 50% of clean aggregate 5- 10 mm size can be incorporated per bag for thickness greater than 100 mm, Trials are recommended to assess suitability of aggregates. Mixing water need to be reduced to a flowable consistency.)

DIRECTIONS FOR USE

SURFACE PREPARATION

Surface to be grouted should be clean and free from rust, grease, oil, dirt, and loose debris. Saturate the area to be grouted with water and remove excess water just before placing grout. Forms should be strong, braced, leak-proof and properly secured.

MIXING

ISOGROUT 55 is ready to use and only needs clean water for mixing. For preparing grouts of various consistencies, the following ratios should be strictly observed.

- Flowable 3.75 Liters per bag.
- Fluid 4.25 Liters per bag.

ISOGROUT 55 should be mixed in a paddle type mortar mixer or with an electric drill fitted with paddle. Place all the required amount of water into the mixing drum. Then slowly add **ISOGROUT 55** while mixing. For a 3 bag (75Kg.) batch, **ISOGROUT 55** should be mixed for 5 minutes. Place immediately and continuously while maintaining grout head at 150 mm minimum. Grout should be placed preferably within 20 minutes after mixing.

PLACING

For pouring, allow a minimum clearance of 75mm width on the placing side and a minimum grout head of 150mm. It is recommended to slope the form on the placing side to assist in grout movement and freeing entrapped air. Place grout from one side only and use a rod or strapping to assist in placement. Use a hopper to provide a constant head of grout and to assure a continuous, uninterrupted flow. DO NOT use a vibrator

CURING

After the grout has initially set (normally 3 - 4 hours) exposed areas which are not to be cut back should be ponded with water to prevent any dry out. The forms may be removed after 24 hours and the exposed grout surface sealed with curing compound or wet burlap sack. Maintain this protection for at least 3 days.

PACKING / COVERAGE

ISOGROUT 55 is packed in 25 Kg multiwalled paper bag. Depending on mixing water used, yield is between 13 to 13.5 liters per bag.

HEALTH / SAFETY

Avoid inhalation of dust. Accidental splashes to the skin should be washed with water and soap. Refer to MSDS for more safety instruction.

SHELF LIFE

12 months stored in warehouse condition. Some lumps may occur due to warehouse set. This should be removed.

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Technical information, data are to be considered as typical values and not sales specification. Actual measured values may vary due to factors beyond our control. Indications concerning function and application of the products are empirical. Although the information is believed to be accurate, there is no warranty by ISOLA. None of the recommendations becomes part of the warranted quality of the products. Due to the fact that the conditions of individual use are beyond ISOLA's direct and continuous control, ISOLA disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential

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